



Manufactures of : TMT Bar, MS Billets, HR Coil etc.
Ambey Majra, MANDI GOBINDGARH-147301 (PB.)

Date:21-06-2024

To,
The Director,
Govt. of India, MOEF,
Northern Regional Office,
Bays No. 24-25,
Sector-31, Chandigarh.160030

Subject: Submission of six-monthly compliance report of M/s. Bhawani Casting (P) Limited, Village Ambey Majra, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab. For the period of June, 2024.

Dear Sir,

This is in reference to the requirement stated in Environmental Clearance granted by Ministry of Environment & Forests, Government of India New Delhi vide their letter No. **J-11011/398/2011-IA-II (I) Dated 08/04/2015** and subsequent amendment having vide letter No. **SEIAA/MS/2023/44 Dated 12.01.2023**. Copy of the same was sent by them to your office as well. As per one of the conditions of the Environment Clearance for our aforesaid project, we are herewith submitting the half yearly report for the period ending March, 2024.

Thanking you & Regards

CONTACT DETAILS:

Name: -Sh. Ashok Kumar
Mobile No-09888044934
Email: bhwanicasting@gmail.com

Yours Sincerely,
For Bhawani Casting (P) Limited

Authorized Signatory

- 1. CC: Member Secretary, SEIAA Punjab, Directorate of Environment and Climate change, C/o Punjab Bio-Technology Incubator (PBTI Complex), Knowledge City, Sector-81, SAS Nagar-140308.**
- 2. The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Fatehgarh Sahib, Punjab.**

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Ministry of Environment, Forest and Climate Change
Northern Region Office
Chandiagr-160030

DATA SHEET

1	Project Type	Steel Manufacturing unit
2	Name of Project	M/s Bhawani Casting (P) Limited
3	Clearance letter No. EC Amendment No.	J-11011/398/2011-IA-II(I) Dated 08/04/2015. SEIAA/MS/2023/44 Dated 12/01/2023
4	Location: a) District (S) b) State (S) c) Latitudes d) Longitudes	Fatehgarh Sahib Punjab 30°-38"North 76° 18" East
5	Address for Correspondence	Mr. Ashok Kumar Aggarwal (Director) Village Ambey Majra, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab Mobile No.- 09888044934
6	Salient features: a) of project b) EMP	This is an existing unit for manufacturing of Steel Ingots, Flats, etc. Earlier it was proposed to increase the production capacity of the unit by installing two no. Induction furnace of capacity 7 TPH & 8 TPH for manufacturing of Steel Ingots, Billets. Later on, as per the revised the EC amendment was filed, to install 1 X17TPH instead of existing induction furnaces, 01 no. of Rolling Mill and the industry has proposed to increase the land area from 5 acre to 11.75 acres by acquiring additional land of 6.75 acres. The production capacity of the unit will remain same @72000 MTA of Steel Ingots/Billets and TMT Bars. Total project cost after amendment also has been revised to 16.67 Cr. 52.0 Lacs Capital Cost & 4.0 Lac Recurring Cost
7	Breakup of project Area a) Submerged area forest & non forest. b) Others	NIL 47550 Sqm. (11.75 Acres)

8	Breakup of project affected population with enumeration of those losing houses/dwelling units only, agriculture land only both dwelling units and agriculture land and landless laborers/artisans a) SC/ST/Adivasis b) others	NA --
9	Financial details a) Project cost as originally planned and subsequent revised estimates and the year of price rate reference. b) Allocation made for environmental management plans with item wise and year wise breakup. c) Benefit cost ratio/internal rate of return and year of assessment. d) Whether (c) includes the cost of environmental management as shown in b) above. e) Actual expenditure incurred on the project so far. f) Actual expenditure incurred on the EMP so far	Original Cost: 12 Crores Revised Cost: 16.67 Crores 52.0 Lacs ---- Yes 52.32 Crores 115.0 Lacs
10	Forest land requirement: a) The status of approval for diversion of forest land for non-forestry use. b) Status of clear felling c) The status of compensatory afforestation, if any. d) Comments on the viability & sustainability of compensatory afforestation programs in the light of actual field experience so far.	NA NA NIL NIL
11	The status of clear felling in non forest areas.	NIL
12	Status of construction: a) Date of commencement b) Date of completion.	Construction phase status as per the EC amendment March 2023 October 2023
13	Reason for delay if any the projects yet to start.	NA

COMPLIANCE OF STIPULATED EC CONDITIONS
M/s Bhawani Castings Pvt. Ltd., Village Ambey Majra,
Tehsil Amluh, Distt. Fatehgarh Sahib (PB)

Sr. No.	EC CONDITIONS	COMPLIANCE STATUS AS ON 31.03.2024
A.	SPECIFIC CONDITIONS:	
i.)	The project proponent should install 24X7 air and water monitoring devices to monitor the air emission and affluent discharge, as provided by Central Pollution Control Board (CPCB) and submit report to Ministry and its Regional Office.	Complied: The 24*7 air emission monitoring system have installed operational.
ii)	Compliance report for CTO issued by PPCB shall be submitted to the Ministry and to the RO at Chandigarh.	Agreed & complying.
iii)	Measures shall be taken to reduce PM levels in the ambient air. Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission level within prescribed standards and installing energy efficient technologies.	Agreed and being complying. Required measures have been taken to reduce the PM levels in the ambient air.
iv)	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled as per G.S.R. 612 (E) dated 25.08.2014. Guidelines /Code of Practice issued by the CPCB shall be followed.	Agreed and being complying.
v)	Efforts shall further be made to use rainwater from the rain water harvesting sources. Capacity of the reservoir shall be enhancing. if required, to meet the maximum water requirement. The Plant shall operate on a zero-discharge concept.	Noted & agreed for compliance.
vi)	The wastewater generated shall be fully treated in an ETP and reused for plantation/greenbelt development. The Plant will operate on a zero-discharge concept.	Not Applicable. There is no source of trade effluent generation.
vii)	Provision shall be made for the housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe	Complied: During construction phase only local labour was employed as such housing facility wasn't

	drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	provided. Beside this all the necessary amenities were provided.
viii)	Proper utilization of fly ash shall be ensured as per Fly Ash Notification. 1999 and subsequent amendment in 2003 and 2010. All the fly ash shall be provided to cement and brick manufacturers for further utilization bottom ash shall be fully utilized for road construction. Details of Memorandum of Understanding entered shall be submitted to the Ministry's Regional Office at Chandigarh.	Not Applicable As no-fly ash is generated.
ix)	Hazardous materials such as lubricating oil, compressed gases, paints and varnishes required during construction phase shall be stored properly as per the regulations at isolated places and used/recycled as per the E(P)A Rules, 1986.	Complying: The used oil is being disposed-off to authorized recyclers.
x)	All vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.	Agreed and being complied.
xi)	Green belt consisting of a 3-tier plantation of trees with thick canopy shall be developed all along the periphery of the plant, vacant areas, transfer points etc, its part of 33% of total plant area.	Green belt has been developed along the periphery of plant and dense forest is being established the additional adjoining land.
xii)	Noise level shall be reduced by stopping leakages from various steam lines compressed air lines and other high pressure equipment and provide noise proof cabins to operators where remote control for operating noise generating equipment is feasible.	Acoustic enclosures have been provided for noise generating equipment's such as DG set.
xiii)	Disaster management plan shall be prepared and implemented. Regular drills thereof shall be conducted.	Agreed & Complied
xiv)	All the commitments made to the public during public hearing /public consultation shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	All the issue raised during public hearing has been addressed.

xv)	Company shall develop as HSE Policy. All the permanent workers shall be covered under ESI Scheme. The company shall have the provision for treatment of its workers at the local. Nursing Homes & Hospitals in case of emergency. Annual Medical Check-up on some medical parameters like Blood test, Chest X-Ray, Eye test, Audiometry, Spirometry etc. shall be conducted amongst the employees of the Company and records maintained thereof.	Agreed & Complied.
xvi)	At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent shall prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project which includes village-wise, sector-wise (Health, Education, Sanitation Health, Skill Development and infrastructure Requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% return annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO, Bangalore. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of company.	Noted & Agreed.
B.	GENERAL CONDITIONS:	
i)	The project authorities must strictly adhere in the stipulations made by the Punjab Board and the State Government.	Noted & Agreed
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.	Noted

iii)	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , PM, SO ₂ and SO _N are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Chandigarh and the SPCB/CPCB once in six months.	Complied: Four Air quality monitoring stations in the upwind, downwind and crosswind have been installed and operational. Beside this, manual monitoring of air quality is done by an arrangement with the NABL approved lab. Latest monitoring report of air quality monitoring attached as Annexure –VI .
iv)	Industrial waste water shall be properly collected, treated so as to confirm to the standards prescribed under GSR422 (E) dated 19th May,1993 and 31st December,1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	Not Required. As no water is used in the process and hence no waste water generation is there.
v)	The overall noise levels in and around the plant area shall be kept well within the standards (85dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should confirm to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) day time) and 76 dB(A)(night time).	Complied: Latest monitoring report attached herewith as Annexure-VI .
vi)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Agreed and being complying: Occupational health surveillance program of workers is already in place and the workers are medically examined during pre-placement and during the course of their employment for vital health parameters. The records of medical examination are kept in the health register.
vii)	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the letter season besides recharging the ground water table.	Noted & agreed for compliance.
viii)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA-EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development	Noted & complying: All the environment safeguards as detailed in EIA/EMP reports are being taken. All the PH issues were addressed to the satisfaction of stake holders.

	programmes, educational programmes, drinking water supply and health care etc.	
ix)	Requisite funds shall be earmarked towards capital cost and recurring cost/ annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government. An implementation schedule or implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Chandigarh. The funds so provided shall not be diverted for any other purpose.	Noted & Agreed.
x)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat Zila Parishad. Municipal Corporation Urban Local Body and the local NGO, if any, from whose suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company, by the proponent.	Agreed & copy of EC has been sent to village panchayat.
xi)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Chandigarh. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Six monthly compliance report have been sent to the Regional Office of the MOEFCC at Chandigarh
xii)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chandigarh/ CPCB / SPCB shall monitor the	Six monthly reports on the status of the compliance of the stipulated conditions has been submitted on regular basis.

	stipulated conditions.	
xiii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Chandigarh by e-mail.	Agreed & noted
xiv)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Chandigarh.	Agreed & complied
xv)	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted & Agreed.

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EC LETTER

F. No. J-11011/398/2011-IA II (I)
 Government of India
 Ministry of Environment, Forest and Climate Change
 (I.A. Division)

Indira Paryavaran Bhawan
 Jor Bagh Road, Ali Ganj,
 New Delhi - 110003

E-mail: satish.garkoti@nic.in
 Tele ph.: 011: 24695316

Dated: 8th April, 2015

To ✓
 M/s Bhawani Castings Pvt. Ltd.
 Village Ambay Majra, Mandi Gobindgarh,
 District- Fatehgarh Sahib.
 Punjab-147301

Email: sitalcptlmohani@yahoo.co.in; Fax No.- 0172-4669295

Subject: Expansion of Steel Manufacturing Unit of M/s Bhawani Castings Pvt. Ltd.
 located at vill. Ambey Majra, Mandi Gobindgarh, Fatehgarh Sahib, Punjab -
 Environmental Clearance - regarding

Sir,

This has reference to your letter no. 'Nil' dated 26.03.2014 along with copies of EIA/EEMP report seeking environment clearance under the provisions of the EIA Notification, 2006 and subsequent letter dated 29/11/2014 on the project mentioned above. The TOR was awarded by MoEFCC vide F.No. J-11011/398/2011-IA.II(I) dated 9.9.2011 for preparation of EIA-EEMP report. The Unit falls in Category B as per schedule, but being situated within 10 km of the Critically Polluted Area of Mandigobindgarh, the proposal is considered in the Ministry of Environment, Forest and Climate Change.

2.0 M/s Bhawani Castings Pvt. Ltd. is a Steel manufacturing Unit which is already manufacturing 36000MTA Steel Ingots at Village Ambey Majra, Tehsil- Mandi Gobindgarh, Distt-Fatehgarh Sahib, Punjab. The Industry now proposes to enhance the capacity of the unit by addition of Two no. Induction furnaces of capacities 10IPH & 7IPH each. It also proposes to install 1 no. rolling mill for manufacturing structural steel section like TMT Bars & flats etc. The capacity of the unit after expansion will be 72,000 MTA Steel Ingots & 72,000 MTA TMT bars, flats. The total area of the plot is 5 acre. There are no Wild Life Sanctuaries, Reserved /Protected Forests or Defence Installations, Rivers and Hill Ranges within 10 km of the project. It is about 5 kms from Mandi Gobindgarh and

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about 50 km from Chandigarh. Total cost of the Project is 12 crores and 52 lakhs have been provided for pollution control Measures. About 4 lakhs will be spent on annual maintenance of such measures.

3.0 The raw materials used are MS/CI Scrap, Sponge/Pig Iron, Silico Manganese. These will be sourced from Domestic as well as International Markets. The raw materials used in the manufacturing of structural sections is Steel Ingots and Billets which will be sourced from own unit.

4.0 The water requirement for domestic purpose will be 10 KLD and for cooling purpose will be 25 KLD. There is no use of water in the process. So the total water requirement will be 35 KLD. The total power demand for the unit after expansion shall be about 8380 MW. This demand will be met by sourcing power from Punjab State Power Corporation Limited from the nearby Sub-station. There will be about 70 persons working in the unit. The unit is situated in the critically Polluted area of Mandi Gobindgarh.

5.0 About 240 Ton/annum slag received from the manufacturing process shall be given to cement plant for further use. There is no process of waste water. Domestic waste water shall be treated through S.T.P. and the same will be used within the premises for plantation. In addition to the existing plantation, it is proposed to plant 100 no. of long leaved, low maintenance and moderate to fast growing species based on agro- climatic zones specified by PAU, Ludhiana along the boundary of unit.

6.0 Solid/hazardous wastes in the unit are expected from slag from the furnaces, solid from the Bag filters & Cyclones and sludge from S.T.P. Solids from Bag filters contain traces of metals in addition to dust etc. as such these will be collected separately in a dumping pit and sent to TSDF site for disposal. Slag from the furnace (about 23.5 Ton per day) received from the manufacturing process shall be used for filling of low lying area for road making. STP sludge will be used within the premises as manure for plantation.

7.0 Ambient air quality monitoring has been carried out at 8 locations during December 2011 February 2012 and the data submitted indicated: PM_{10} ($76.9\mu g/m^3$ to $96.8\mu g/m^3$), $PM_{2.5}$ (30.1 to $47.3\mu g/m^3$), SO_2 (11.5 to $18.5\mu g/m^3$) and NO_x (24.0 to $30.8\mu g/m^3$). For Air Pollution Control, Cyclones & Bag filters have been provided on Induction furnace and Scrubber on rolling mills. There will be generation of emission containing SPM. All the processes are closed circuit; as such emission to the atmosphere will be minimal. However APCD, cyclone, bag filters will be provided at the exit point to arrest particulate matters.

8.0 Public Hearing of the project was conducted by PPCB at site on 23.10.2012 under the Chairmanship of Shri Praveen Kumar Thind, IAS, Additional Deputy Commissioner, Fatehgarh Sahib. Major issues raised during the public hearing are road in the village in very bad shape and the same should be got repaired immediately, residents of the area will get employment from the expansion plan of the industrial plant.

9.0 It was stated that CTO was granted on 23.05.2013 and renewed for 3 years. The Committee noted that the greenbelt development is very poor and details of green belt development should be furnished along with photographs as part of compliance report submitted on E.G.

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10.0 The Committee after detailed deliberations recommended the project for environmental clearance subject to stipulation of the following specific conditions and any other mitigative measures and conditions for environmental protection.

11.0 The Ministry of Environment, Forest and Climate Change, on the basis of the aforesaid recommendations of the EAC(I), hereby grants environmental clearance to the aforesaid project of M/s Bhawani Castings Pvt. Ltd. under the provisions of the EIA Notification 2006 with the following conditions:


A. SPECIFIC CONDITION:

- i. The project proponent should install 24X7 air and water monitoring devices to monitor the air emission and affluent discharge, as provided by Central Pollution Control Board (CPCB) and submit report to Ministry and its Regional Office.
- ii. Compliance report for CTO issued by PPCB shall be submitted to the Ministry and to the RO at Chandigarh.
- iii. Measures shall be taken to reduce PM levels in the ambient air. Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels within prescribed standards and installing energy efficient technologies.
- iv. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled as per G.S.R. 612 (E) dated 25.08.2014. Guidelines/Code of Practice issued by the CPCB shall be followed.
- v. Efforts shall further be made to use rainwater from the rain water harvesting sources. Capacity of the reservoir shall be enhanced, if required, to meet the maximum water requirement. The Plant shall operate on a zero discharge concept.
- vi. The wastewater generated shall be fully treated in an ETP and reused for plantation/greenbelt development. The Plant will operate on a zero discharge concept.
- vii. Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash shall be provided to cement and brick manufacturers for further utilization Bottom ash shall be fully

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utilized for road construction. Details of Memorandum of Understanding entered shall be submitted to the Ministry's Regional Office at Chandigarh.

- ix. Hazardous materials such as lubricating oil, compressed gases, paints and varnishes required during construction phase shall be stored properly as per the regulations at isolated places and used/recycled as per the E(P)A Rules, 1986.
- x. All vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.
- xi. Green belt consisting of a 3-tier plantation of trees with thick canopy shall be developed all along the periphery of the plant, vacant areas, transfer points, etc. as part of 33% of total plant area.
- xii. Noise level shall be reduced by stopping leakages from various steam lines, compressed air lines and other high pressure equipment; and provide noise proof cabins to operators where remote control for operating noise generating equipment is feasible.
- xiii. Disaster management plan shall be prepared and implemented. Regular drills thereof shall be conducted.
- xiv. All the commitments made to the public during public hearing/public consultation shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xv. Company shall develop an HSE Policy. All the permanent workers shall be covered under ESI Scheme. The company shall have the provision for treatment of its workers at the local Nursing Homes & Hospitals in case of emergency. Annual Medical Check-up on some medical parameters like Blood test, Chest X-Ray, eye test, Audiometry, Spirometry etc. shall be conducted amongst the employees of the Company and records maintained thereof.
- xvi. At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent shall prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO, Bangalore. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.


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GENERAL CONDITIONS:

The project authorities must strictly adhere to the stipulations made by the Punjab Pollution Control Board and the State Government.

No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC).

At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, PM_{2.5}, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Chandigarh and the SPCB/CPCB once in six months.

Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.

The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).

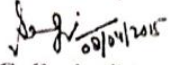
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Chandigarh. The funds so provided shall not be diverted for any other purpose.

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- x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- xi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Chandigarh. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chandigarh / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Chandigarh by e-mail.
- xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEFCC) at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which project shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Chandigarh.
- xv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
12. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

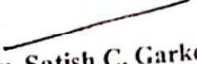
13. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Dr. Satish C. Garkoti)
Director

Copy to:-

1. The Secretary, Department of Environment, Govt. of Punjab.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Punjab State Pollution Control Board, Vatavaran Bhavan, Nabha Road, Patiala-147001.
4. The Additional Principal Chief Conservator of Forests (C) Ministry of Env. And Forests Regional Office (NZ) Bays No. 24-25, Sector-31 A, Dakshin Marg, Chandigarh-160030.
5. Guard File / Record File/Monitoring file.


(Dr. Satish C. Garkoti)
Director

EC AMENDMENT LETTER

 सत्यमेव जयते	STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PUNJAB Ministry of Environment, Forest & Climate Change, Government of India O/o Directorate of Environment & Climate Change MGSIPA Complex, Sector 26, Chandigarh-160019 seiaapb2017@gmail.com
	No. SEIAA/MS/2023/ <u>44</u> Registered/Email Date: <u>12/01/2023</u>

To

M/s Bhawani Castings Pvt. Ltd.,
 Village Ambey Majra,
 Mandi Gobindgarh,
 District Fatehgarh Sahib, Punjab.

Subject: Amendment in Environmental Clearance for manufacturing of steel ingots by M/s Bhawani Castings Pvt. Ltd. at Village Ambey Majra, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab (Proposal No. SIA/PB/IND/294333/2022).

This has reference to your online application submitted on 22.11.2022 for amendment in Environmental Clearance granted by MoEF&CC under the EIA Notification 14.09.2006 vide letter F.No. J-11011/398/2011-IA-II (I) dated 08.04.2015.

The industry has proposed to install 1x17TPH of induction furnace in place of the 2 existing induction furnaces of 1x7TPH and 1x10TPH capacities. The industry has also proposed to increase the land area from 5 acre to 11.75 acres by acquiring additional land of 6.75 acres. The proposal of an amendment has now been appraised as per the procedure prescribed under the provisions of EIA Notification dated 14.09.2006 based on mandatory documents enclosed with the application viz., Form-4, Environmental Clearance (EC) letter, a copy of compliance of the conditions of Environmental Clearance and additional clarifications furnished.

The SEAC, Punjab in its 233rd meeting held on 29.11.2022 after due consideration of the relevant documents submitted, presentation given and additional clarification/ documents furnished by the project proponent has recommended the case to SEIAA for amendment.

The proposal was considered by SEIAA in the 225th meeting held on 13.12.2022, wherein, SEIAA decided to accept the recommendations of SEAC and allow amendment in Environmental Clearance granted for installation of 1 Induction Furnace of capacity 17 TPH in place of the earlier 2 Induction Furnaces of capacity 7 TPH and 10 TPH. The land area of the industry will increase from 5 acre to 11.75 acres by acquiring additional land of 6.75 acres. The production capacity of the unit will remain the same after proposed amendment.

Accordingly, an amendment in the Environmental Clearance is, hereby, issued subject to the same terms and conditions as imposed in the original Environmental Clearance granted by MoEF&CC vide letter F.No. J-11011/398/2011-IA-II (I) dated 08.04.2015 to the

y

industry namely M/s Bhawani Casting Pvt. Ltd. located at Village Ambey Majra, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab along with following additional condition:

Table 1

Sr. No.	Description	As per earlier EC	Proposal	After amendment
1.	Production capacity	Ingots – 72,000 TPA TMT Bars, Flats, - 72000 TPA	No Change	Ingots – 72,000 TPA TMT Bars, Flats, - 72000 TPA
2.	Machinery	Induction Furnaces- 2 no. (1x7 TPH, 1x10 TPH capacity) Rolling Mill- 1 no.	Induction Furnaces- 1 no. (17 TPH capacity) Rolling Mill- 1 no.	<u>Induction Furnaces</u> - 1 no. (17 TPH capacity) <u>Rolling Mill</u> - 1 no.
3	Project Cost	Rs. 12 Cr.	Rs. 4.67 Cr	Rs. 16.67 Cr
3	Area	5 acres	6.75 acres	11.75 acres

Additional Condition:

The project proponent shall carry out plantation of 10 feet tall plants of indigenous tree species in at least 38 % of its total area. Ornamental trees, lawns and shrubs / bushes will not be included in the 38 % area to be permanently maintained under tree cover. The Environmental Consultant of the project proponent shall submit a special compliance report in this regard on 01.08.2023 along with short video clips and photographs.

This letter must remain appended with the original letter no. letter no. F.No. J-11011/398/2011-IA-II (I) dated 08.04.2015 vide which Environmental Clearance was granted by MoEF&CC to the industry.


Environmental Engineer

Copy to: -

Through Parivesh

Date _____

1. The Secretary to Govt. of India, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi
2. The Secretary, Department of Science, Technology & Environment, Government of Punjab, Chandigarh.
3. The Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh-160030. The detail of the authorized officer of the project proponent is as under:
 - a) Name of the applicant : Sh. Ashok Kumar Aggarwal, Director
 - b) Mobile No. : 98880-44934
 - c) Email Id : bhawanicasting@gmail.com
 - d) Email ID of Env. Consultant : cptleia@gmail.com
4. The Chairman, Punjab State Power Corporation Ltd, the Mall, Patiala.

5. The Deputy Commissioner, Fatehgarh Sahib.
6. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi
7. The Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala, 147001
8. The Secretary, Punjab Water Regulation and Development Authority, SCO 149-152, Sector 17-C, Chandigarh-160017.
9. The Chief Town Planner, Department of Town & Country Planning, 6th Floor, PUDA Bhawan, Phase-8, Mohali.
10. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003

SIR
Environmental Engineer

VARIED CTO WATER



PUNJAB POLLUTION CONTROL BOARD
 Zonal Office-II, Vatavaran Bhawan, Nabha Road, Patiala - 147001.
 Website:- www.ppcb.gov.in



Office Dispatch No : _____ Registered/Speed Post _____ Date: _____
 Industry Registration ID: R13FGS196981 Application No : 23595842

To,

Ashok Kumar Aggarwal
 Bhawani Castings Pvt. Ltd., Vill. Ambey Majra, Mandi Gobindgarh
 Mandigobindgarh, Fatehgarhsahib-147301

Subject: Grant Varied 'Consent to Operate' an outlet u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 for discharge of effluent.

With reference to your application for obtaining Varied 'Consent to Operate' an outlet for discharge of the effluent u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974, you are, hereby, authorized to operate an industrial unit for discharge of the effluent(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate

1. Particulars of Consent to Operate under Water Act, 1974 granted to the industry

Consent to Operate Certificate No.	CTOW/Varied/FGS/2023/23595842
Date of issue :	23/10/2023
Date of expiry :	31/12/2023
Certificate Type :	Varied
Previous CTO No. & Validity :	CTOW/Renewal/FGS/2023/21139244 From:01/07/2023 To:30/09/2023

2. Particulars of the Industry

Name & Designation of the Applicant	Ashok Kumar Aggarwal, (Director)
Address of Industrial premises	Bhawani Castings Pvt. Ltd., Vill. Ambey Majra, Mandi Gobindgarh, Amlah, Fatehgarh Sahib-147301
Capital Investment of the Industry	5232.68 lakhs
Category of Industry	Orange
Type of Industry	2063-Steel and steel products using various furnaces like blast furnace /open hearth furnace/induction furnace/arc furnace/submerged arc furnace /basic oxygen furnace /hot rolling reheated furnace
Scale of the Industry	Large
Office District	Fatehgarh Sahib
Consent Fee Details	Rs. 436025/- each vide UTR No. INDBR32022032400279852, INDBR32022032400279702 dated 24/03/2022, Rs. 7200/- each vide online R.No. 819689520 and 403169712 dated 17/01/2023.
Raw Materials(Name with quantity per day)	M.S. Scrap, Pig Iron & Ferro Alloys @ 90300 MT/year.
Products (Name with quantity per day)	Steel Ingots/ Concast Billets/ TMT Bars @ 72000 MT/year.

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Bhawani Castings Pvt. Ltd., Vill. Ambey Majra, Mandi Gobindgarh, Amlah, Fatehgarh Sahib, 147301

Page 1

By-Products, if any,(Name with quantity per day)	<i>Nil.</i>
Details of the machinery and processes	<i>As per details given in application form no. 23595842</i>
Details of the Effluent Treatment Plant	<i>Trade Effluent @ Nil. Domestic Effluent @ 3.0 KLD : Septic tank.</i>
Mode of Disposal	<i>Domestic Effluent @ 3.0 KLD : Onto land for plantation after passing through septic tank.</i>
Standards to be achieved under Water(Prevention & Control of Pollution) Act, 1974	<i>As per effluent standards prescribed by the Board/ MoEF&CC as amended from time to time.</i>



23/10/2023

(Amit Kumar)
Environmental Engineer
For & on behalf

of

(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Fatehgarh Sahib. He is requested to ensure the compliance of the consent conditions and submit the report accordingly.



23/10/2023

(Amit Kumar)
Environmental Engineer
For & on behalf

of

(Punjab Pollution Control Board)

VARIED CTO AIR



PUNJAB POLLUTION CONTROL BOARD
 Zonal Office-II, Vatavaran Bhawan, Nabha Road, Patiala - 147001
 Website:- www.ppcb.gov.in



Office Dispatch No :	Registered/Speed Post	Date:
Industry Registration ID: R13FGS196981		Application No : 23595365

To,
 Ashok Kumar Aggarwal
 Bhawani Castings Pvt. Ltd., Vill. Ambey Majra, Mandi Gobindgarh
 Mandigobindgarh, Fatehgarhsahib-147301

Subject: Grant Varied 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 for discharge of emissions arising out of premises.

With reference to your application for obtaining Varied 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are hereby authorized to operate an industrial unit for discharge of the emission(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate.

1. Particulars of Consent to Operate under Air Act, 1981 granted to the industry

Consent to Operate Certificate No.	CTOA/Varied/FGS/2023/23595365
Date of issue :	23/10/2023
Date of expiry :	30/09/2026
Certificate Type :	Varied
Previous CTO No. & Validity :	CTOA/Renewal/FGS/2023/21139242 From:01/07/2023 To:30/09/2023

2. Particulars of the Industry

Name & Designation of the Applicant	Ashok Kumar Aggarwal, (Director)
Address of Industrial premises	Bhawani Castings Pvt. Ltd., Vill. Ambey Majra, Mandi Gobindgarh, Amlah, Fatehgarh Sahib-147301
Capital Investment of the Industry	5232.68 lakhs
Category of Industry	Orange
Type of Industry	2063-Steel and steel products using various furnaces like blast furnace /open hearth furnace/induction furnace/arc furnace/submerged arc furnace /basic oxygen furnace /hot rolling reheated furnace
Scale of the Industry	Large
Office District	Fatehgarh Sahib
Consent Fee Details	Rs. 436025/- each vide UTR No. INDBR32022032400279852, INDBR32022032400279702 dated 24/03/2022, Rs. 7200/- each vide online R.No. 819689520 and 403169712 dated 17/01/2023.
Raw Materials (Name with Quantity per day)	M.S. Scrap, Pig Iron & Ferro Alloys @ 90300 MT/year.

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Bhawani Castings Pvt. Ltd., Vill. Ambey Majra, Mandi Gobindgarh, Amlah, Fatehgarh Sahib, 147301

Page 1

Products (Name with Quantity per day)	Steel Ingots/ Concast Billets/ TMT Bars @ 72000 MT/year.
By-products, if any, (Name with Quantity per day)	Nil.
Details of the machinery and process	As per details given in application form no. 23595365
Quantity of fuel required (in TPD) and capacity of boilers/ Furnace/Thermo heater etc.	Induction Furnace of capacity @ 17 TPH alongwith CCM plant & rolling mill : Electricity. 2 no. DG set of capacity 375 and 125 KVA : HSD as per requirement.
Type of Air Pollution Control Devices to be installed	Induction Furnace of capacity @ 17 TPH alongwith CCM plant & rolling mill : Bag filter house. 2 no. DG set of capacity 375 and 125 KVA : Canopy.
Stack height provided with each boiler/thermo heater/Furnace etc.	Induction Furnace of capacity @ 17 TPH alongwith CCM plant & rolling mill : 25 mtr above ground level. 2 no. DG set of capacity 375 and 125 KVA : Adequate stack height.
Sources of emissions and type of pollutants	SPM.
Standards to be achieved under Air(Prevention & Control of Pollution) Act, 1981	As per stack emission standards prescribed by the Board/ MoEF&CC as amended from time to time.



23/10/2023

**(Amit Kumar)
Environmental Engineer**

For & on behalf

of

(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Fatehgarh Sahib. He is requested to ensure the compliance of the consent conditions and submit the report accordingly.

PLANTATION PHOTOGRAPHS







SITE PHOTOGRAPHS



ANALYSIS REPORT AMBIENT AIR



**CHANDIGARH POLLUTION
TESTING LABORATORY**

(Environmental Monitoring, EIA, NOC, ETP, STP)
NABET Accredited EIA Consultant



TC-6728

H.O. : #372, Sector 15-A, Chandigarh-160 015
Phone : 0172-4669295
Lab : E-126, Phase-VII, Indl. Area, Mohali - 160055
Phone : 0172-5090312
E-mail : cptle126@gmail.com ; lab@cptl.co.in
Website : www.cptl.co.in



TEST CERTIFICATE

REPORT No. CPTL/E.C/2024/03/24(A)

Format No. CPTLF7.8-I(A)

REPORTING DATE: 16-03-2024

NAME OF INDUSTRY: M/s. BHAWANI CASTINGS PVT.LTD.,
VILLAGE-AMBAY MAJRE, MANDIGOBINDGARH,
DISTT.-FATEHGARH SAHIB (PB).

SAMPLE PARTICULARS

Sampling Plan Ref No.:	CPTLF 7.3-I	Type of Sample:	Ambient Air
Sampling Method:	CPTL/SM/01	Point of Sample:	Near Main Gate
Date of Sample Collection:	11-03-2024	Environmental Conditions:	Normal
Date of Sample Received in Lab.:	12-03-2024	Analysis Duration:	12-03-2024 to 16-03-2024
Sample Identification No.:	CPTL/EC/2024/03/24(A)	Sample Collected By:	Amrit Singh & Team
Nature of Sample:	Air Sample		

TECHNICAL DATA

1.	Location of Sampling station	Near Main Gate	
2.	Instrument used for Sampling	RDS, FPS & Gaseous Attachment	
3.	Time period for Sampling	240 minutes	
PARAMETERS	RESULTS	AS PER NAAQS- 2009 PRESCRIBED BY CPCB	TEST METHOD
Particulate Matter (PM ₁₀), µg/m ³	86.2	100	IS:5182 (P-23): 2006, (RA – 2012)
Particulate Matter (PM _{2.5}), µg/m ³	42.0	60	IS:5182 (P-24):2019
Nitrogen Dioxide (NO ₂), µg/m ³	16.4	80	IS:5182 (P-6): 2006, (RA – 2012)
Sulphur dioxide (SO ₂), µg/m ³	6.8	80	IS:5182 (P-2): 2001, (RA-2012)
Carbon monoxide (CO), mg/m ³	0.58	4	IS:5182 (P-10): 1999, (RA – 2009)

S. P. Singh
Chemist In-Charge
Date: 16.3.2024

Sital Singh
Sital Singh (CEO)
(Authorized Signatory)
Date: 16/03/2024

- The results are related to test items only.
- This certificate is not to be reproduced wholly or in part and cannot be used as evidence in the court of law without approval of laboratory.
- Sample will be destroyed after retention time unless otherwise specified.

Page 1 of 1

END OF REPORT

NOISE MONITORING REPORT



CHANDIGARH POLLUTION TESTING LABORATORY
 (Environmental Monitoring, EIA, NOC, ETP, STP)
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H.O. : #372, Sector 15-A, Chandigarh-160 015
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 E-mail : cptle126@gmail.com ; lab@cptl.co.in
 Website : www.cptl.co.in



TEST CERTIFICATE

REPORT No. CPTL/EC/2024/03/24(N)

Format No. CPTLF7.8-1(N)
 REPORTING DATE: 16-03-2024

NAME OF INDUSTRY: M/s. BHAWANI CASTINGS PVT. LTD.,
 VILLAGE-AMBAY MAJRE, MANDIGOBINDGARH,
 DISTT.-FATEHGARH SAHIB (PB).

SAMPLE PARTICULARS

Sampling Plan Ref No.:	CPTLF 7.3-I	Type of Sample:	Air Quality w.r.t Noise
Sampling Method:	CPTL/SM/01	Sampling location:	Different location
Date of Monitoring:	11-03-2024	Environmental Conditions:	Normal
Sample Identification No.:	CPTL/EC/2024/03/24(N)	Monitoring Done By:	Amrit Singh & Team
Nature of Sample:	Noise Level Monitoring		

NOISE LEVEL

S. No.	Sub-Location	Value in dB(A) (Average) Day Time	Test Method
1.	Project Site	68.7	IS:9989:1981(Rev.2002)

SAPJ
 Chemist In-Charge
 Date: 16.3.2024

Sital Singh
 Sital Singh (CEO)
 (Authorized Signatory)
 Date: 16/03/2024

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END OF REPORT

GROUND WATER REPORT



CHANDIGARH POLLUTION TESTING LABORATORY
(Environmental Monitoring, EIA, NOC, ETP, STP)
NABET Accredited EIA Consultant



H.O. : #372, Sector 15-A, Chandigarh-160 015
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E-mail : cptle126@gmail.com ; lab@cptl.co.in
Website : www.cptl.co.in



TEST CERTIFICATE

REPORT No. CPTL/EC/2024/03/24(W)

Format No. CPTLF7.8-1(W)

REPORTING DATE: 16-03-2024

NAME OF INDUSTRY: M/s. BHAWANI CASTINGS PVT. LTD.,
VILLAGE-AMBAY MAJRE, MANDIGOBINDGARH,
DIST.-FATEHGARH SAHIB (PB).

SAMPLE PARTICULARS

Date of Sample Collection	11-03-2024
Sample Received in Lab	12-03-2024
Type of Sample	Ground Water (Grab)
Sampling Plan Ref. No.	CPTLF7.3-I
Sampling Method	CPTL/SM/01
Environmental conditions	Normal
Point of Sample Collection	From Borewell
Quantity & Packaging	2.0 liters in Plastic bottle
Sample Identification No.	CPTL/EC/2024/03/24(W)
Analysis Duration	12-03-2024 to 16-03-2024
Sample Collected By	Amrit Singh & Team
Visual Observation	Clear and colorless.

TEST RESULTS

S. No.	Parameters	Results	Acceptable Limit	Permissible Limit	Test Method
1.	pH	7.58	6.5-8.5	No relaxation	IS: 3025 (P-11): 2022
2.	Color, HU	<5	5	15	IS: 3025 (P-4): 2021
3.	Turbidity, NTU	<1	1	5	IS: 3025 (P-10): 1984 (RA-2017)
4.	Total Dissolved Solids, mg/l	290	500	2000	IS: 3025 (P-16): 1999 (RA-2019)
5.	Total Hardness (as CaCO ₃), mg/l	260	200	600	IS: 3025 (P-21): 2009 (RA-2019)
6.	Calcium (as Ca ⁺⁺), mg/l	44.0	75	200	IS: 3025 (P-40): 2004
7.	Magnesium (as Mg ⁺⁺), mg/l	20.0	30	100	IS: 3025 (P-46): 1994 (RA-2019)
8.	Total Alkalinity (as CaCO ₃), mg/l	250	200	600	IS: 3025 (P-23): 2006
9.	Chloride (as Cl), mg/l	12.5	250	1000	IS: 3025 (P-32): 1998 (RA-2019)
10.	Sulphate (as SO ₄), mg/l	16.8	200	400	IS: 3025 (P-24): 2022
11.	Iron (as Fe), mg/l	0.12	0.3	No relaxation	IS: 3025 (P-53): 2003 & C/1, 10 Phenanthroline Method (RA-2019)
12.	Zinc (as Zn), mg/l	ND (DL-0.5)	5	15	IS: 3025 (P-49): 1994 (RA-2019)
13.	Nitrate (as NO ₃), mg/l	ND (DL-1.0)	45	No relaxation	IS: 3025 (P-34): 2022
14.	Total Chromium (as Cr), mg/l	ND (DL-0.04)	0.05	No relaxation	IS: 3025 (P-52): 2003 (RA-2019)
15.	Manganese (as Mn), mg/l	ND (DL-0.09)	0.1	0.3	IS: 3025 (P-59): 2006



CHANDIGARH POLLUTION TESTING LABORATORY

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 Phone : 0172-5090312
 E-mail : cptle126@gmail.com ; lab@cptl.co.in
 Website : www.cptl.co.in

Sample Received in Lab	11-03-2024
Type of Sample	Ground Water (Grab)
Sample Identification No.	CPTL/EC/2024/03/24(W)

S. No.	Parameters	Results	Acceptable Limit	Permissible Limit	Test Method
16.	Lead (as Pb), mg/l	ND (DL-0.01)	0.01	No relaxation	IS: 3025 (P-47): 1994 (RA-2019)
17.	Arsenic (as As), mg/l	ND (DL-0.01)	0.01	0.05	IS: 3025 (P-37): 2022
18.	Copper (as Cu), mg/l	ND (DL-0.04)	0.05	1.5	IS: 3025 (P-42): 1992 (RA-2019)
19.	Boron (as B), mg/l	ND (DL-0.1)	0.5	1.0	IS: 3025 (P-57): 2021
20.	Cadmium (as Cd), mg/l	ND (DL-0.001)	0.003	No relaxation	IS: 3025 (P-41):1992 (RA-2019)
21.	Fluoride (as F), mg/l	ND (DL-0.1)	1.0	1.5	IS: 3025 (P-60): 2008
22.	Free Residual Chlorine (as Cl ₂), mg/l	ND (DL-0.1)	0.2	1	IS: 3025 (P-26): 2021
23.	Selenium (as Se), mg/l	ND (DL-0.01)	0.01	No relaxation	IS: 3025 (P-56): 2003 (RA-2019)

ND-Not Detected
 DL-Detection Limit

S. P. S.
 (Chemist In-Charge)
 Date: 16.3.2024

Sital Singh
 Sital Singh (CEO)
 (Authorized Signatory)
 Date: 16/03/2024

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